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CONSOLIDATED INDEX

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THE ONLY COPY-RIGHT EDITION.

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**RIFLE**  
**AND**  
**INFANTRY TACTICS,**

**REVISED AND IMPROVED**

by

**Brig. Gen. W. J. HARDEE, C.S. ARMY.**

**SUPPLEMENTED WITH OTHER CONTEMPORARY DRILL**

for

**CRUTCHFIELD'S BRIGADE**

at

**150<sup>TH</sup> SAILOR'S CREEK**

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**MOBILE :**

**S. H. GOETZEL & CO.**

**FIRST YEAR OF THE CONFEDERACY.**

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As Compiled by

**Col. Silas Tackitt,**

**Honorable Order of Kentucky Colonels**

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## TITLE SECOND. SCHOOL OF THE SOLDIER.

### *Lesson I : Principles of Shoulder Arms*

Hardee SoS 120. The recruit being placed as explained in the first lesson of the first part, the instructor will cause him to bend the right arm slightly, and place the piece in it, in the following manner :

121. The piece in the right hand—the barrel nearly vertical and resting in the hollow of the shoulder—the guard to the front, the arm hanging nearly at its full length near the body; the thumb and fore-finger embracing the guard, the remaining fingers closed together, and grasping the swell of the stock just under the cock, which rests on the little finger.

122. Recruits are frequently seen with natural defects in the conformation of the shoulders, breast and hips. These the instructor will labor to correct in the lessons without arms, and afterwards, by steady endeavors, so that the appearance of the pieces, in the same line, may be uniform, and this without constraint to the men in their positions.

123. The instructor will have occasion to remark that recruits, on first bearing arms, are liable to derange their position by lowering the right shoulder and the right hand, or by sinking the hip and spreading out the elbows.

124. He will be careful to correct all these faults by continually rectifying the position ; he will sometimes take away the piece to replace it the better ; he will avoid fatiguing the recruits too much in the beginning, but labor by degrees to render this position so natural and easy that they



up.

The same will be done for the Right Corporal of the Second Section.

Gilham 216. The officers will now take their posts as prescribed ; if the captain has to discharge the duties of instructor, the first lieutenant will take his place on the right of the front rank, the second lieutenant replacing the first behind the fourth section.

— END. —

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The instructor will, however, labor to cause these motions to be executed with promptness, and, above all, with regularity.

131. The last syllable of the command will decide the brisk execution of the first motion of each time (or pause). The commands *two*, *three*, and *four*, will decide the brisk execution of the other motions. As soon as the recruits shall well comprehend the positions of the several motions of a time, they will be taught to execute the time without resting on its different motions ; the mechanism of the time will nevertheless be observed, as well to give a perfect use of the piece, as to avoid the sinking of, or slurring over, either of the motions.

132. The manual of arms will be taught in the following progression : the instructor will command :

*Support — ARMS.*

*One time and three motions.*

133. (*First motion.*) Bring the piece, with the right hand, perpendicularly to the front, and between the eyes, the barrel to the rear ; seize the piece with the left hand at the lower band, raise this hand as high as the chin, and seize the piece at the same time with the right hand four inches below the cock.

134. (*Second motion.*) Turn the piece with the right hand, the barrel to the front; carry the piece to the left shoulder, and pass the fore-arm extended on the breast between the right hand and the cock ; support the cock against the left fore-arm, the left hand resting on the right breast.



**SUPPORT ARMS**

measure by. Where the shoulders are of equal height, the tallest man, measuring from heels to head, will take precedence ; and where there is an equality in both these points, the senior member will take the right.

Root. It is customary, before forming company in two ranks, for the *First Corporal* to take the right of the line, although he may not be taller than the tallest private ; and the *Fourth Corporal* to take left, although he may not be shorter than the shortest private.

Gilham, 216. The other sergeants will take post in the rank of file-closers, two paces to the right of the company, and assist the first sergeant in forming the company. The first sergeant takes his place six or eight paces in front of and opposite the centre of his company, facing towards it.

When the men have their places, the first sergeant will command :

FRONT.

The second sergeant, who is the left guide of the company, will now place himself on the left of the company.

As the company will always be formed in two ranks, the orderly sergeant will promptly command :

1. *In two ranks, form company.*
2. *Left—FACE.* 3. MARCH.

At the command, *left face*, the whole company will face to the left, except the guide and man (fourth corporal) on the left, who stand fast.

At the command, MARCH, the whole of the men who have faced to left, will step off together ; the second man, counting from the left, will place himself in the rear rank, behind the man next to the guide, and face to the front ; the two following men will, in like manner, on closing up, form the next file, the third man in the front, and the fourth in the rear rank behind him, and all the other men will come

the height of the, shoulder, the fingers extended and joined, the right arm nearly straight.

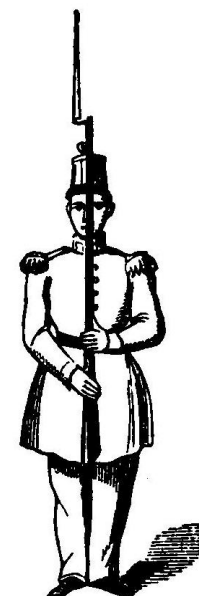
142. (*Third motion.*) Drop the left hand quickly by the side.

*Present—ARMS.*

*One time and two motions.*

143. (*First motion.*) With the right hand, bring the piece erect before the centre of the body, the rammer to the front ; at the same time seize the piece with the left hand half-way between the guide sight and lower band, the thumb extended along the barrel and against the stock, the fore-arm horizontal and resting against the body, the hand as high as the elbow.

144. (*Second motion.*) Grasp the small of the stock with the right hand, below and against the guard.



PRESENT ARMS

*Shoulder—ARMS*

*One time and two motions.*

145. (*First motion.*) Bring the piece to the right shoulder, at the same time change, the position of the right hand so as to embrace the guard with the thumb and fore-finger, slip up the left hand to the height of the shoulder, the fingers extended and joined, the right arm nearly straight.

146. (*Second motion.*) Drop the left hand quickly by the side.

10. The distance from one rank to another will be thirteen inches, measured from the breasts of the rear rank men to the backs or knapsacks of the front rank men.

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Posts of Company Officers, Sergeants and Corporals.

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12. The company officers and sergeants are nine in number, and will be posted in the following manner :

13. The *captain* on the right of the company touching with the left elbow.

14. The *first sergeant* in the rear rank, touching with the left elbow and covering the captain. In the manoeuvres he will be denominated *covering sergeant*, or *right guide* of the company.

15. The remaining officers and sergeants will be posted as file-closers, and two paces behind the rear rank.

16. The *first lieutenant*, opposite the centre of the fourth section.

17. The *second lieutenant*, opposite the centre of the first platoon.

18. The *third lieutenant*, opposite the centre of the second platoon.

19. The *second sergeant*, opposite the second file from the left of the company. In the manoeuvres he will be designated left guide of the company.

20. The *third sergeant*, opposite the second file from the right of the second platoon.

21. The *fourth sergeant*, opposite the second file from the left of the first platoon.

22. The *fifth sergeant*, opposite the second file from the right of the first platoon.

23. In the left or tenth company of the battalion, the *second sergeant* will be posted in the front rank and on the left

Ellsworth 290. The men may sit or lie down anywhere within one pace of their position in ranks.

Hardee SoS 73. If the instructor wishes merely to relieve the attention of the recruit, he commands,

*In place* – REST ;

the soldier is then not required to preserve his immobility, but he always keeps one of his feet in its place.

74. When the instructor wishes to commence the instruction, he commands :

ATTENTION ;

at this command, the soldier takes his position-the position of the soldier-remains motionless, and fixes his attention.

Hardee SoS 152. When the instructor may wish the recruits to pass from this position to that of silence and steadiness, he will command :

1. *Attention*. 2. SQUAD.

153. At the second word, the recruits will resume the position of *order arms*.

*Shoulder* – ARMS  
*One time and two motions*.

154. (*First motion*.) Raise the piece vertically with the right hand to the height of the right breast, and opposite the shoulder, the elbow close to the body ; seize the piece with the left hand below the right, and drop quickly the right hand to grasp the piece at the swell of the stock, the thumb



The piece is similarly restored by the commands :

1. *Reverse.* 2. ARMS.

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*Rest On Arms*

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Being at a carry, the instructor commands:

1. *Rest on.* 2. ARMS.

Upton 1875, SoS 91.  
(*First motion.*) Raise the piece vertically with the right hand, advancing it slightly, grasp it with the left hand at the lower band, the forearm horizontal ; reverse it with both hands, the muzzle dropping to the front, the butt passing between the breast and the right forearm ; place the muzzle upon the left toe, the barrel to the right, the left hand slipping up the stock, the back to the left.

(*Second motion.*) Carry the right foot three inches to the rear ; at the same time place the hands upon the butt, the right hand uppermost, the left knee slightly bent.

(*Third motion.*) Incline the head toward the hands.

1. *Carry.* 2. ARMS.

(*First motion.*) Grasp the small of the stock with the right hand, back to the right ; carry the piece with the right hand opposite the right shoulder, barrel to the front and



2. *Handle* – CARTRIDGE.  
*One time and one motion.*

157. Seize the cartridge with the thumb and next two fingers, and place it between the teeth.

3. *Tear* – CARTRIDGE.  
*One time and one motion.*

158. Tear the paper to the powder, hold the cartridge upright between the thumb and first two fingers, near the top ; in this position place it in front of and near the muzzle – the back of the hand to the front.

4. *Charge* – CARTRIDGE.  
*One time and one motion.*

159. Empty the powder into the barrel ; disengage the ball from the paper with the right hand and the thumb and first two fingers of the left ; insert it into the bore, the pointed end uppermost, and press it down with the right thumb ; seize the head of the rammer with the thumb and fore-finger of the right hand, the other fingers closed, the elbows near the body.



**Seize head  
of rammer.**

5. *Draw* – RAMMER.  
*One time and three motions.*

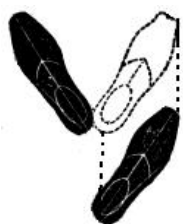
160. (*First motion.*) Half draw the rammer by

the proper front, and standing steady at *shouldered arms*. This will be observed until the evening is so far advanced that the sentinels begin challenging.

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*Parade Rest.*

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Hardee. Being on parade and at order arms, if it be wished to give the men rest, the command will be :

*Parade — REST.*

At the command, *rest*, turn the piece on the heel of the butt, the barrel to the left, the muzzle in front of the centre of the body ; seize it at the same time with the left hand just above, and with the right at the upper band ; carry the right foot six inches to the rear, the left knee slightly bent.

Ellsworth. Keep the head and eyes square to the front, remain silent and immovable until the command of attention.



Parade Rest.

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*Reverse Arms.*

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1. *Reverse.* 2. ARMS.

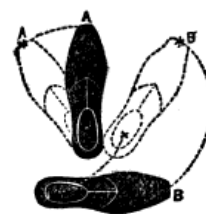
Upton 1875, SoS 89. (*First motion.*) Being at the carry, raise the piece vertically with the right hand, advancing it slightly ; grasp it with the left hand at the lower band, the forearm horizontal ; at the same time grasp the small of the stock with the right hand.

(*Second motion.*) Reverse the piece, the muzzle dropping to the front, the butt passing between the breast

near the muzzle with the right hand, the thumb under, and the forefinger above the rammer, the fingers extended ; clear the rammer from the bore by extending the arm, the palm to the front, the rammer in the prolongation of the barrel.

165. (*Second motion.*) Turn the rammer, the head passing near the left shoulder, the fingers closed, the rammer held between the thumb and forefinger — nails to the front ; insert the rammer, until the hand reaches the muzzle.

166. (*Third motion.*) Force the rammer home by placing the little finger of the right hand on the head of the rammer ; extend the left hand down the piece without depressing the shoulder.



**Half face  
to the right.**

8. PRIME.

*One time and two motions.*

167. (*First motion.*) With the left hand raise the piece till the band is as high as the eye, grasp the small of the stock with the right hand ; half face to the right ; place, at the same time, the right foot behind and at right angles with the left ; the hollow of the right foot against the left heel. Slip the left hand down to the lower band, the thumb along the stock, the left elbow against the body ; bring the piece to the right side, the butt below the right fore-arm — the small of the stock against the body and two inches below the right breast, the barrel upwards, the muzzle on a level



Prime.

hand uppermost, the point of the sword between the feet.

At funeral ceremonies, the sword will be reversed under the right arm, the left hand clasping the blade behind the back. When the escort rests on arms, the officers will stand as at *parade rest*, inclining the head.

Officers on all duties under arms are to have their swords drawn, without waiting for any words of command for that purpose.

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SALUTES.

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*Color-salute.*

---

Hardee. In the ranks, the color-bearer, whether at a halt or in march, will always carry the heel of the color-lance supported at the right hip, the right hand generally placed on the lance at the height of the shoulder, to hold it steady. When the color has to render honors, the color-bearer will salute as follows :

At the distance of six paces slip the right hand along the lance to the height of the eye ; lower the lance by straightening the arm to its fullest extent, the heel of the lance remaining at the hip, and bring back the lance to the habitual position when the person saluted shall be passed, or shall have passed, six paces.

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*When the piece is held by the right hand.*

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Ellsworth 292. Salute by touching the piece at the height of the shoulder with the forefinger of the left hand ; palm of the hand downward, fingers extended and joined. After saluting in this manner, drop the hand quietly to the side.

muzzle as high as the eye, the left elbow against the side ; place at the same time the right thumb on the head of the cock, the other fingers wider and against the guard.

173. (*Third motion.*) Cock, and seize the piece at the small of the stock without deranging the position of the butt.



AIM.

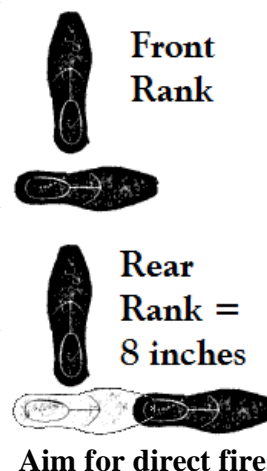
*One time and one motion.*

174. Raise the piece with both hands, and support the butt against the right shoulder ; the left elbow down, the right as high as the shoulder ; incline the head upon the butt, so that the right eye may perceive quickly the notch of the hausse, the front sight, and the object aimed at ; the left eye closed, the

right thumb extended along the stock, the fore-finger on the trigger.

175. When recruits are formed in two ranks to execute the firings, the front rank men will raise a little less the right elbow, in order to facilitate the aim of the rear rank men.

176. The rear rank men, in aiming, will each carry the right foot about eight inches to the right, and towards the left heel of the man next on the right, inclining the upper part of the body forward.



and number one of the front rank will seize his piece with his right hand in the same manner. These two men will raise the stack, bring the butts together and disengage the bayonets. Number two of the rear rank will receive his piece from his front rank man, and all will resume the position of order arms.

Scott, SoS 417. When organized companies stack arms, the sergeants, and also corporals, if in the rank of file closers, will rest their pieces against the stacks nearest to them respectively, after ranks are broken, and resume their pieces on the signal to re-form ranks.

Upton, 1868, SoS 431. If in single rank, number two of each four will make the stack and at the command,

*stack,*

will take the piece of number three with the left hand below the middle band, and use it as explained for the piece of the even-number when in two ranks ; his own piece he will place as explained for the piece of the even-numbered rear-rank man the stack ; the stack will be completed as in two ranks, after which the piece of number four will be passed to the right and placed upon the stack.

432. In breaking the stack, the piece of number four will first be passed to him ; the stack will then be broken as when in two ranks, except that number two will seize his own piece with the right and the piece of number three with the left hand.



The carry.

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MANUAL OF THE SWORD OR SABRE,  
FOR OFFICERS.

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*Position of the Sword or Sabre, under Arms.*

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Hardee. *The carry.* The gripe in the right

grasping the piece just below the upper band, and the left hand extending upon the piece.

– Seizing the piece with the left hand at the muzzle and carry the right hand to the cartridge box.

Each rear rank man will bring his right foot by the side of the left.

180. The men being in this position, the instructor will cause the loading to be continued by the commands and means prescribed, No. 156, and following.

181. If, after firing, the instructor should not wish the recruits to reload, he will command :

*Shoulder – ARMS.*

*One time and one motion.*

182. Throw up the piece briskly with the left hand and resume the position of *shoulder arms*, at the same time face to the front, turning on the left heel, and bring the right heel on a line with the left.

183. To accustom the recruits to wait for the command, *fire*, the instructor, when they are in the position of *aim*, will command :

*Recover – ARMS.*

*One time and one motion.*

184. At the first part of the command, withdraw the finger from the trigger ; at the command, *arms*, retake the position of the third motion of *ready*, No. 173, by cocking and seizing the piece at the small of the stock without deranging the position of the



Recover.

308. (*First motion.*) Make a half face to the right, turning on both heels, the feet square to each other ; at the same time raise the piece slightly, and seize it with the left hand above and near the lower band.

(*Second motion.*) Carry the right foot twenty inches perpendicularly to the rear, the right heel on the prolongation of the left, the knees slightly bent, the weight of the body resting equally on both legs ; lower the piece with both hands, the barrel uppermost, the left elbow against the body ; seize the piece at the same time with the right hand at the small of the stock and supported against the hip, the arms falling naturally, the point of the bayonet held at height of the eye, as in *charge bayonet*.

*Shoulder — ARMS.*

*One time and one motion.*

309. Spring up the piece with the left hand and place it against the right shoulder, at the same time bring the right heel by the side of the left, and face to the front.

---

*Stack Arms.*

---

The men being at order arms, the instructor will command :

*Stack — ARMS.*

410. At this command, number two of the front rank will pass his piece before him, seize it with the left hand about the middle band ; slope it across the body, barrel to the rear, the butt three inches above the right toe of the man on his left, muzzle six inches to the right of his right shoulder.

411. Number two of the rear rank will turn his piece,

along the left thigh, muzzle six inches in front of the centre of the body — right hand grasping the piece just below the upper band, and the left hand extending upon the piece.

(*Third motion.*) Same as the third in the first time of loading, No. 156, except, seize the piece with the left hand at the muzzle and carry the right hand to the bayonet, grasping it, with the little finger up.

189. (*Fourth motion.*) Draw the bayonet from the scabbard, fix it, seize the piece with the right hand at the muzzle, the left hand resting on the barrel, arm extended.

*Shoulder — ARMS.*

*One time and two motions.*

190. (*First motion.*) Raise the piece with the left hand and place it against the right shoulder, the rammer to the front ; seize the piece at the same time with the right hand at the swell of the stock, the thumb and fore-finger embracing the guard, the right arm nearly extended.

191. (*Second motion.*) Drop briskly the left hand by the side.

192. The recruits being at ordered arms, if the instructor should wish to fix bayonets, he will give the command :

*Fix Bayonet.*

(*First motion.*) The pieces will be brought to the left side at one motion, and held as prescribed in No. 188 : butt upon the ground — barrel to the front — piece inclined to the right and front resting along the left thigh, muzzle six inches in front of the centre of the body — right hand grasping the piece just below the upper band, and the left hand extending



"Halt!"

will be given as the left foot is coming to the ground, when both ranks will halt and take the position of *Guard*. The front rank may then be required to move to the front about ten feet by the "*front passade*," in order that the company may be exercised in the manual.

105. The charge by company, resembling the actual movement in battle, will instruct the men to act with that concert which alone renders a charge formidable.

*To the front – PASSADE!*  
*One time and two motions.*

Kelton 17. (*First motion.*) Move the right foot twice its length in front of the left, parallel to its first position.

18. (*Second motion.*) Move the left foot quickly forward twice its length in front of the right, resuming the position of *Guard*.

---

*Bayonet Exercise.*

---

Hardee 304. The bayonet exercise in this book will be confined to two movements, the *guard against infantry*, and the *guard against cavalry*. The men will be placed in one rank, with two paces interval, and being at shoulder arms, the instructor will command :

to embrace the guard, slide the left hand to the height of the shoulder, the right hand nearly extended.

196. (*Second motion.*) Drop the left hand smartly by the side.

*Trail – ARMS.*  
*One time and two motions.*

197. The same as the motion of *order arms*, No. 147, by seizing the piece briskly with the left hand near the upper band, and detaching it slightly from the shoulder with the right hand : loosening the grasp of the right hand, lowering the piece with the left, re-seizing the piece with the right hand just above the lower band, the little finger in the rear of the barrel, the butt about four inches from the ground, the right hand supported against the hip, dropping the left hand by the side.

198. (*Second motion.*) Incline the muzzle slightly to the front, the butt to the rear and about four inches from the ground. The right hand supported at the hip, will so hold the piece that the rear rank men may not touch with their bayonets the men in the front rank.

*Shoulder – ARMS.*

199. At the command, *shoulder*, raise the piece perpendicularly in the right hand, the little finger in the rear of the barrel ; at the command, *arms*, execute what has been prescribed for the *shoulder* from the position of *order arms*, No's 154-55, by :

(*First motion.*) Raising the piece vertically with the right hand to the height of the right breast, and opposite the



the piece vertically, rise, turn about, and resume his position in the ranks.

303. The second man will be taught what has just been prescribed for the first, and so on throughout the squad.

---

*To Load on the March or Running.*

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Ellsworth 57, 240. From the position of *aim* after firing, carry the piece across the body to the left side and seize it at the middle band with the left hand.

Holding the piece in this position, take out a cartridge, tear it with the teeth, and halt a moment to pour the powder in the barrel ; draw rammer and ram cartridge, if necessary, halting a moment to insert rammer ; return the rammer and bring up the piece with the left hand to position of *arms port* and prime ; come to the *ready*, and fire when occasion offers.

*Arms—PORT.*

*One time and one motion.*

Hardee. Throw the piece diagonally across the body, the lock to the front, seize it smartly at the same instant with both hands, the right at the handle, the left at the lower band, the two thumbs pointing towards the muzzle, the barrels sloping upwards and crossing opposite to the point of the left shoulder, the butt proportionally lowered. The palm of the right hand will be above, and that of the left under the piece, the nails of both hands next to the body, to which the elbows will be closed.



of the bayonet.

202. (*Fourth motion.*) Wrest off the bayonet, return it to the scabbard, grasp the piece at the upper band with the right hand, lower the left hand along the barrel, the arm extended without depressing the shoulder.

*Shoulder—ARMS.*

*One time and two motions.*

203. (*First motion.*) The same as the first motion from *fix bayonet*, No. 190, by raising the piece with the left hand and placing it against the right shoulder, the rammer to the front ; seizing the piece at the same time with the right hand at the swell of the stock, the thumb and fore-finger embracing the guard, the right arm nearly extended.

(*Second motion.*) The same as the second motion from *fix bayonet*, No. 191, by dropping briskly the left hand by the side.

*Secure—ARMS.*

*One time and three motions.*

204. (*First motion.*) Like the first motion of *support arms*, No. 133 : bring the piece, with the right hand, perpendicularly to the front and between the eyes, the barrel to the rear ; except with the right hand seize the piece at the small of the stock.

205. (*Second motion.*) Turn the piece with both hands, the barrel to the front ; bring it opposite the left shoulder, the butt against the hip, the left hand at the lower band, the thumb as high as the chin and extended on the rammer ; the piece erect and



stock, the butt resting on the right thigh, the left hand supporting the piece near the lower band.

293. He will next move the right leg to the left around the knee supported on the ground, until this leg is nearly perpendicular to the direction of the left foot, and thus seat himself comfortably on the right heel.



294. Raise the piece with the right hand and support it with the left, holding it near the lower band, the left elbow resting on the left thigh near the knee ;

seize the hammer with the thumb, the fore-finger under the guard, cock and seize the piece at the small of the stock ; bring the piece to the shoulder, *aim* and *fire*.

295. Bring the piece down as soon as it is fired, and support it with the left hand, the butt resting against the right thigh ; carry the piece to the rear rising on the knee, the barrel downwards, the butt resting on the ground ; in this position support the piece with the left hand at the upper band, draw cartridge with the right and load the piece, ramming the ball, if necessary, with both hands.

296. When loaded bring the piece to the front with the left hand, which holds it at the upper band ; seize it at the same time with the right hand at the small of the stock ; turn the piece, the barrel uppermost and nearly horizontal, the left elbow resting on the left thigh ; half-cock, remove the old cap and prime, rise, and return to the ranks.

297. The second man will then be taught what has just been prescribed for the first, and so on through the remainder of the squad.



Right shoulder shift arms

from it ; place, at the same time, the right hand on the butt, the beak between the first two fingers, the other two fingers under the butt plate.

211. (*Second motion.*) Quit the piece with the left hand, raise and place the piece on the right shoulder with the right hand, the lock plate upwards ; let fall, at the same time, the left hand by the side.

*Shoulder — ARMS.*

*One time and two motions.*

212. (*First motion.*) Raise the piece perpendicularly by extending the right arm to its full length, the rammer to the front, at the same time seize the piece with the left hand between the lower band and guide sight.

213. (*Second motion.*) Quit the butt with the right hand, which will immediately embrace the guard, lower the piece to the position of shoulder arms, slide up the left hand to the height of the shoulder, the fingers extended and closed. Drop the left hand by the side.

214. The men being at support arms, the instructor will sometimes cause pieces to be brought to the right shoulder. To this effect, he will command :

*Right shoulder shift — ARMS.*

*One time and two motions.*

215. (*First motion.*) Seize the piece



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277. The men of this file will load their pieces briskly and fire a second time ; reload and fire again, and so on in continuation.

278. The second file will aim, at the instant the first brings down pieces to reload and will conform in all respects to that which has just been prescribed for the first file.

279. After the first fire, the front and rear rank men will not be required to fire at the same time.

280. Each man, after loading, will return to the position of *ready* and continue the fire.

281. When the instructor wishes the fire to cease, he will command :

*Cease — FIRING.*

282. At this command, the men will cease firing. If they have fired they will load their pieces and bring them to a shoulder ; if at the position of *ready*, they will half-cock and shoulder arms. If in the position of *aim*, they will bring down their pieces, half-cock, and shoulder arms.

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*To Fire by Rank.*

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283. The fire by rank will be executed by each entire rank, alternately.

284. The instructor will command :

1. *Fire by rank.* 2. *Squad.* 3. *READY.*
4. *Rear rank.* 5. *AIM.* 6. *FIRE.* 7. *LOAD.*

285. At the third command, the two ranks will take the position of *ready*, as prescribed in the direct fire, No's 171-73.

286. At the seventh command, the rear rank will

shifted to the right shoulder ; but not in the march in line of battle until the battalions shall be well instructed.

After arms have been carried for some time on the right shoulder, they may be shifted, in like manner, to the left shoulder.

The piece may be brought from the right to the left shoulder by the command,

*Left Shoulder Shift — ARMS.*

*One time and three motions.*

Ellsworth. 54. (*First motion.*) Spring the piece forward to a vertical position, grasping it with the left hand at the tail band ; change the right hand to the small of the stock and bring the piece to the *first* position of *support from the shoulder*, Hardee SoS 133, which is : piece perpendicular to the front, and between the eyes, barrel to the rear ; piece seized with the left hand at the lower band, left hand raised as high as the chin, and piece seized at the same time with the right hand four inches below the cock.

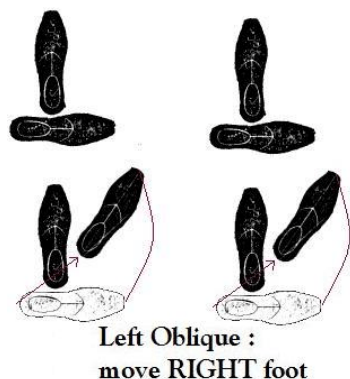
55. (*Second motion.*) Turn the piece with the right hand the barrel to the front ; carry the piece to the left shoulder, placing the left hand under the butt, finger and thumb over the heel ; glide the right hand up to the hammer, fingers extended and joined. *Position of the piece* — vertical, butt well back, lock plate as high as the arm pit.

56. (*Third motion.*) Turn the left hand over to the left, carry it well to the left, elbow against the body and left fore-arm horizontal, hand under the butt. *Position of the Piece* — barrel to the left, lock plate downward, muzzle obliquely to the right and rear.

*Shoulder — ARMS.*

*One time and three motions.*

Ellsworth 20. (*First motion.*) Grasp the piece with the right hand under and against the left fore-arm ; bring the



271. At the command, *aim*, the front rank will take aim to the left without deranging the feet ; each man in the rear rank will advance the right foot about eight inches towards the right heel of the man next on the right of his file leader, and aim to the left, inclining the upper part of the body forward and bending a little the right knee.

272. In both cases, at the command, *load*, the men of each rank will come to the position of load as prescribed in the direct fire ; the rear rank men bringing back the foot which is to the right and front by the side of the other. Each man will continue to load as if isolated.

### Remarks on the Oblique Firings

For *Direct Firings*, the left foot points *toward* the direction of the aim—forward—while the right foot rests *perpendicular* to the direction of the aim.

For *Right Oblique*, the left foot pivots to the right oblique *toward* the direction of the aim and is advanced slightly ; the right foot remains in place.

For *Left Oblique*, the left foot remains in place ; the right is advanced—right heel to the instep of the left foot—then pivoted left until the left foot rests *perpendicular* to the direction of the aim.

After the cautionary command, *left oblique*, two things occur : (1) both ranks throw back the left shoulder and look steadily at the object to be hit ; and (2) rear rank men will, at the same time, raise their pieces to a vertical position as described by Upton, 1875, SoS 289. Commanders should



222. (*First motion.*) Turn the piece with the right hand, the barrel to the left, at the same time seize the cartridge box with the left hand, bend the body, advance the left foot, the heel opposite the lower band ; lay the piece on the ground with the right hand, the toe of the butt on a line with the right toe, the knees slightly bent, the right heel raised.

223. (*Second motion.*) Rise up, bring the left foot by the side of the right, quit the cartridge box with the left hand, and drop the hands by the side.

*Raise – ARMS.*

*One time and two motions.*

224. (*First motion.*) Seize the cartridge box with the left hand, bend the body, advance the left foot opposite the lower band, and seize the piece with the right hand.

225. (*Second motion.*) Raise the piece, bringing the left foot by the side of the right ; turn the piece with the right hand, the rammer to the front ; at the same time quit the cartridge box with the left hand, and drop this hand by the side.

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### *Inspection of arms.*

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226. The recruits being at ordered arms, and having the bayonet in the scabbard, if the instructor wishes to cause an inspection of arms, he will command :

*Inspection – ARMS.*

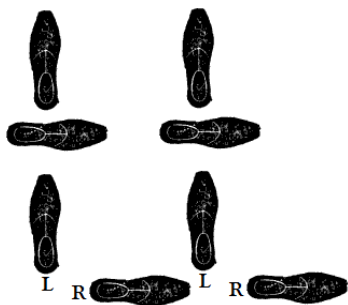
*One time and four motions.*

### The Direct Fire.

260. The instructor will give the following commands:

1. *Fire by squad.* 2. *Squad.* 3. *READY.*
4. *AIM.* 5. *Fire.* 6. *LOAD.*

261. These several commands will be executed as has been prescribed in the *Manual of Arms*. At the third command, the men will come to the position of *ready* as heretofore explained, No. 171-73. At the fourth they will aim according to the rank in which each may find himself placed, the rear rank men inclining forward a little the upper part of the body, in order that their pieces may reach as much beyond the front rank as possible.



262. At the sixth command, they will load their pieces, and return immediately to the position of *ready*, No. 171.

263. The instructor will recommence the firing by the commands :

1. *Squad.* 2. *AIM.* 3. *FIRE.* 4. *LOAD.*

264. When the instructor wishes the firing to cease, he will command :

*Cease—FIRING.*

265. At this command, the men will cease firing, but will load their pieces if unloaded, and afterwards bring them

hand.

228. (*Fourth motion.*) Bring the piece to the position of *ordered arms*.

229. The instructor will then inspect in succession the piece of each recruit, in passing along the front of the rank. Each, as the instructor reaches him, will raise smartly his piece with his right hand, seize it with the left between the lower band and guide-sight, the lock to the front, the left hand at the height of the chin, the piece opposite to the left eye ; the instructor will take it with the right hand at the handle, and, after inspecting it, will return it to the recruit, who will receive it back with the right hand, and replace it in the position of *ordered arms*.

Inspection  
of arms.



230. When the instructor shall have passed him, each recruit will retake the position prescribed at the command, *inspection arms*, return the rammer, and resume the position of *ordered arms*.

231. If, instead of *inspection of arms*, the instructor should merely wish to cause bayonets to be fixed, he will command :

*Fix—BAYONET.*

232. Fix bayonets as has been explained, No. 192, and immediately resume the position of *ordered arms*.

233. If it be the wish of the instructor, after firing, to ascertain whether the pieces have been discharged, he will command :